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PATENT

Customer No. 22,852
Attorney Docket No. 6502.0195-00

THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Panagiotis TSIRIGOTIS, et al.

Application No.: 10/016,123

Filed: December 17, 2001

For: METHODS AND APPARATUS
FOR IMPLEMENTING CACHE
REPLACEMENT SCHEME

)
)
) Group Art Unit: 2185
)
) Examiner: Unassigned
)
)

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Commissioner for Patents and Trademarks
Washington, DC 20231

Sir:

POWER OF ATTORNEY BY ASSIGNEE

SUN MICROSYSTEMS, INC., ("Assignee"), a Delaware corporation having a place of business at 901 San Antonio Road, Palo Alto, California 94303, certifies that to the best of Assignee's knowledge and belief it is the Assignee of the entire right, title, and interest in and to the above-referenced patent application and represents that the undersigned is a representative authorized and empowered to sign the Power of Attorney on behalf of the Assignee.

Assignee has reviewed the Assignment document that evidences the placement of title in the Assignee. A true and correct copy of the Assignment is attached hereto. Assignee understands and believes that the Assignment has been submitted for recordation in the U.S. Patent and Trademark Office.

Pursuant to 37 C.F.R. § 1.36 and 3.71, the Assignee hereby revokes any and all powers of attorney previously given and hereby appoints the following attorneys and/or agents to prosecute this application and transact all business in the Patent and Trademark Office connected therewith: Douglas B. Henderson, Reg. No. 20,291; Ford F. Farabow, Jr., Reg. No. 20,630; Arthur S. Garrett, Reg. No. 20,338; Donald R.

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Application No.: 10/016,123

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Application No.: 10/016,123

Michele C. Bosch, Reg. No. 40,524; Michael J. Flibbert, Reg. No. 33,234; Scott A. Herbst, Reg. No. 35,189; Leslie A. McDonnell, Reg. No. 34,872; and Thalia V. Warnement, Reg. No. 39,064, all of **Finnegan, Henderson, Farabow, Garrett & Dunner, L.L.P., Customer Number 22,852**, and Kenneth Olsen, Reg. No. 26,493; Timothy J. Crean, Reg. No. 37,116; Alexander E. Silverman, Reg. No. 37,940; Anirma R. Gupta, Reg. No. 38,275; Sean P. Lewis, Reg. No. 42,798; Michael J. Schallop, Reg. No. 44,319; Bernice B. Chen, Reg. No. 42,403; Noreen A. Krall, Reg. No. 39,734; Monica D. Ward, Reg. No. 40,696; Marc D. Foodman, Reg. No. 34,110; Elaine Lee, Reg. No. 41,936; Paul D. Sorkin, Reg. No. 39,039; Marilyn E. Glaubenslee, Reg. No. 35,521; Andrew C. Chen, Reg. No. 43,544; Pavel Pogodin, Reg. No. 48,205; and Jeffrey L. Myers, Reg. No. 44,252, all of **SUN MICROSYSTEMS, INC.**, 4120 Network Circle, MS SCA12-203, Santa Clara, CA 95054, with full power of substitution and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith.


Pursuant to 37 C.F.R. §3.71, the Assignee hereby states that prosecution of the above-referenced patent application is to be conducted to the exclusion of the inventor(s).

Please address all correspondence to **FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER, L.L.P.**, 1300 I Street, N.W., Washington, D.C. 20005, Telephone No. (202) 408-4000.

Assignee of Interest

Sun Microsystems, Inc.
4120 Network Circle
MS SCA12-203
Santa Clara, CA 95054

Dated: July 12, 2002


Name: Kenneth Olsen
Reg. No. 26,493
Title: Vice President of Intellectual Property

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ASSIGNMENT

WHEREAS We, the below named inventors, [hereinafter referred to as Assignors], have made an invention entitled:

METHODS AND APPARATUS FOR IMPLEMENTING A CACHE REPLACEMENT SCHEME
(Title of Invention)

for which WE executed an application for United States Letters Patent concurrently herewith or filed an application for United States Letters Patent on December 17, 2001 (Serial No. 10/016,123); and

WHEREAS, Sun Microsystems, Inc., a corporation of Delaware, United States of America, whose post office address is
(Full Name of Assignee) (Country of Incorporation)

901 San Antonio Road, MS PAL01 521, Palo Alto, CA 94303 [hereinafter referred to as Assignee], is desirous of securing the entire right, title, and interest in and to this invention in all countries throughout the world, and in and to the application for United States Letters Patent on this invention and the Letters Patent to be issued upon this application;

NOW THEREFORE, be it known that for and in consideration of the sum of One Dollar (\$1.00) in hand paid and other good and valuable consideration the receipt of which from Assignee is hereby acknowledged, We, as Assignors, have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the Assignee, its lawful successors and assigns, my/our entire right, title, and interest in and to this invention, provisional application Serial No. _____, filed _____ (if any), and this application, and all divisions, and continuations thereof, and all Letters Patent of the United States which may be granted thereon, and all reissues thereof, and all rights to claim priority on the basis of the above provisional application (if any), as well as all rights to claim priority on the basis of this application, and all applications for Letters Patent which may hereafter be filed for this invention in any foreign country and all Letters Patent which may be granted on this invention in any foreign country, and all extensions, renewals, and reissues thereof; and We hereby authorize and request the Commissioner of Patents and Trademarks of the United States and any official of any foreign country whose duty it is to issue patents on applications as described above, to issue all Letters Patent for this invention to Assignee, its successors and assigns, in accordance with the terms of this Assignment;

AND, WE HEREBY covenant that We have the full right to convey the interest assigned by this Assignment, and We have not executed and will not execute any agreement in conflict with this Assignment;

AND, WE HEREBY further covenant and agree that We will, without further consideration, communicate with Assignee, its successors and assigns, any facts known to me/us respecting this invention, and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver any and all papers that may be necessary or desirable to perfect the title to this invention in said Assignee, its successors or assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid Assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States and any foreign country, it being understood that any expense incident to the execution of such papers shall be borne by the Assignee, its successors and assigns.

AND, WE HEREBY authorize and request the attorneys We have empowered in the Declaration and Power of Attorney in this application, to insert here in parentheses (Application No. 10/016,123, filed December 17, 2001) the filing date and application number of said application when known.

IN TESTIMONY WHEREOF, We have hereunto set our hands.

1. FULL NAME OF SOLE OR FIRST ASSIGNOR Panagiotis Tsirigotis	ASSIGNOR'S SIGNATURE <i>P. Tsirigotis</i>	DATE 4/24/02
ADDRESS 801 W. El Camino Real, #142, Mountain View, CA 94040		CITIZENSHIP Greece
2. FULL NAME OF SECOND ASSIGNOR, IF ANY Rajeev Chawla	ASSIGNOR'S SIGNATURE	DATE
ADDRESS 5819 Carmel Way, Union City, CA 94587		CITIZENSHIP India
3. FULL NAME OF THIRD ASSIGNOR, IF ANY Sanjay R. Radia	ASSIGNOR'S SIGNATURE	DATE
ADDRESS 883 Boar Circle, Fremont, CA 94539		CITIZENSHIP USA

ASSIGNMENT

WHEREAS We, the below named inventors, [hereinafter referred to as Assignors], have made an invention entitled:

METHODS AND APPARATUS FOR IMPLEMENTING A CACHE REPLACEMENT SCHEME
(Title of Invention)

for which WE executed an application for United States Letters Patent concurrently herewith or filed an application for United States Letters Patent on December 17, 2001 (Serial No. 10/016,123); and

WHEREAS, Sun Microsystems, Inc., a corporation of Delaware, United States of America, whose post office address is
(Full Name of Assignee) (Country of Incorporation)

901 San Antonio Road, MS PAL01 521, Palo Alto, CA 94303 [hereinafter referred to as Assignee], is desirous of securing the entire right, title, and interest in and to this invention in all countries throughout the world, and in and to the application for United States Letters Patent on this invention and the Letters Patent to be issued upon this application;

NOW THEREFORE, be it known that for and in consideration of the sum of One Dollar (\$1.00) in hand paid and other good and valuable consideration the receipt of which from Assignee is hereby acknowledged, We, as Assignors, have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the Assignee, its lawful successors and assigns, my/our entire right, title, and interest in and to this invention, provisional application Serial No. _____, filed _____ (if any), and this application, and all divisions, and continuations thereof, and all Letters Patent of the United States which may be granted thereon, and all reissues thereof, and all rights to claim priority on the basis of the above provisional application (if any), as well as all rights to claim priority on the basis of this application, and all applications for Letters Patent which may hereafter be filed for this invention in any foreign country and all Letters Patent which may be granted on this invention in any foreign country, and all extensions, renewals, and reissues thereof; and We hereby authorize and request the Commissioner of Patents and Trademarks of the United States and any official of any foreign country whose duty it is to issue patents on applications as described above, to issue all Letters Patent for this invention to Assignee, its successors and assigns, in accordance with the terms of this Assignment;

AND, WE HEREBY covenant that We have the full right to convey the interest assigned by this Assignment, and We have not executed and will not execute any agreement in conflict with this Assignment;

AND, WE HEREBY further covenant and agree that We will, without further consideration, communicate with Assignee, its successors and assigns, any facts known to me/us respecting this invention, and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver any and all papers that may be necessary or desirable to perfect the title to this invention in said Assignee, its successors or assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid Assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States and any foreign country, it being understood that any expense incident to the execution of such papers shall be borne by the Assignee, its successors and assigns.

AND, WE HEREBY authorize and request the attorneys We have empowered in the Declaration and Power of Attorney in this application, to insert here in parentheses (Application No. 10/016,123, filed December 17, 2001) the filing date and application number of said application when known.

IN TESTIMONY WHEREOF, We have hereunto set our hands.

County of _____)	ss.	Name: <u>Panagiotis Tsirigotis</u>
_____)		Address: <u>801 W. El Camino Real, #142</u>
State of _____)		<u>Mountain View, CA 94040</u>
		By: _____
		Date: _____

Subscribed and sworn to before me this _____ day of _____, 20____

_____, Notary Public

County of _____)
State of _____)
_____)

ss.

Name: Rajeev Chawla
Address: 5819 Carmel Way
Union City, CA 94587

By: _____
Date: _____

Subscribed and sworn to before me this _____ day of _____, 20____

_____, Notary Public

County of _____)
State of _____)
_____)

ss.

Name: Sanjay R. Radia
Address: 883 Boar Circle
Fremont, CA 94539

By: Sanjay R. Radia
Date: 4/25/02

Subscribed and sworn to before me this _____ day of _____, 20____

_____, Notary Public

ASSIGNMENT

WHEREAS We, the below named inventors, [hereinafter referred to as Assignors], have made an invention entitled:

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NOW THEREFORE, be it known that for and in consideration of the sum of One Dollar (\$1.00) in hand paid and other good and valuable consideration the receipt of which from Assignee is hereby acknowledged, We, as Assignors, have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the Assignee, its lawful successors and assigns, our entire right, title, and interest in and to this invention, provisional application Serial No. _____, filed _____ (if any), and this application, and all divisions, and continuations thereof, and all Letters Patent of the United States which may be granted hereon, and all reissues thereof, and all rights to claim priority on the basis of the above provisional application (if any), as well as all rights to claim priority on the basis of this application, and all applications for Letters Patent which may hereafter be filed for this invention in any foreign country and all Letters Patent which may be granted on this invention in any foreign country, and all extensions, renewals, and reissues thereof; and We hereby authorize and request the Commissioner of Patents and Trademarks of the United States and any official of any foreign country whose duty it is to issue patents on applications as described above, to issue all Letters Patent for this invention to Assignee, its successors and assigns, in accordance with the terms of this Assignment;

AND, WE HEREBY covenant that We have the full right to convey the interest assigned by this Assignment, and We have not executed and will not execute any agreement in conflict with this Assignment;

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IN TESTIMONY WHEREOF, We have hereunto set our hands.

County of _____)	Name: <u>Panagiotis Tsirigotis</u>
State of _____)	Address: <u>801 W. El Camino Real, #142</u>
	<u>Mountain View, CA 94040</u>
	By: _____
	Date: _____

Subscribed and sworn to before me this _____ day of _____, 20____

_____, Notary Public

County of _____)
State of _____)
_____)

ss.

Name: Rajeev Chawla
Address: 5819 Carmel Way
Union City, CA 94587

By: *Rajeev Chawla*
Date: 5/29/02

Subscribed and sworn to before me this _____ day of _____, 20____

_____, Notary Public

County of _____)
State of _____)
_____)

ss.

Name: Sanjay R. Radia
Address: 883 Boar Circle
Fremont, CA 94539

By: _____
Date: _____

Subscribed and sworn to before me this _____ day of _____, 20____

_____, Notary Public